ALIGNMENT WITH SEQ ID NO: 2

ABN99362
ID ABN99362 standard; DNA; 1959 BP.
XX
AC ABN99362;
XX
DT 08-AUG-2002 (first entry)
XX
DE Human secreted protein (SECP) coding sequence 3.
XX
KW Human; secreted protein; SECP; SECP expression; gene therapy;
KW protein therapy; immune system disorders; AIDS; thymic hypoplasia;
KW anaemia; asthma; Crohn's disease; neurological disorder; epilepsy;
KW Huntington's disease; dementia; Parkinson's disease; Down's syndrome;
KW developmental disorder; cell proliferative disorder; cancer; ds; gene.
XX
OS Homo sapiens.
XX
PN WO200226982-A2.
XX
PD 04-APR-2002.
XX
PF 25-SEP-2001; 2001WO-US030042.
XX
PR 29-SEP-2000; 2000US-0236869P.
PR 11-OCT-2000; 2000US-0239812P.
PR 12-OCT-2000; 2000US-0240108P.
PR 17-OCT-2000; 2000US-0241282P.
PR 20-OCT-2000; 2000US-0242218P.
XX
PA (INCY-) INCYTE GENOMICS INC.
XX
PI Yue H, Tang YT, Nguyen DB, Yao MG, Xu Y, Tribouley CM;
PI Sanjanwala MS, Walia NK, Baughn MR, Sapperstein SK, Lal P;
PI Thornton M, Gandhi AR, Ramkumar J, Elliott VS, Arvizu C;
PI Thangavelu K, Gietzen KJ, Ding L, Au-Young J, Tran B, Policky JL;
PI Lee S, Lu DAM, Burford N, Warren BA, Gururajan R, Duggan BM;
PI Honchell CD, Hafalia AJA;
XX
DR WPI; 2002-394239/42.
DR P-PSDB; ABP43479.
XX
PT New human secreted proteins, useful for diagnosing, treating or
PT preventing immune system disorders (e.g. Crohn's disease), neurological
PT disorders (e.g. Parkinson's disease), or cell proliferative disorders
PT (e.g. cancers).
XX
PS Claim 5; Page 197; 238pp; English.
XX
CC The invention comprises the amino acid and coding sequences of human
CC secreted proteins (SECP). The SECP DNA and amino acid sequences of the
CC invention are useful for treating/preventing disorders associated with
CC decreased or elevated expression of SECP. The SECP DNA and protein
CC sequences are specifically useful for treating/preventing (i.e. gene
CC therapy and protein therapy): immune system disorders (e.g. AIDS, thymic
CC hypoplasia, anaemia, asthma or Crohn's disease); neurological disorders
CC (e.g. epilepsy, Huntington's disease, dementia or Parkinson's disease);
CC developmental disorders (e.g. Down's syndrome); and cell proliferative
CC disorders (e.g. cancer). The nucleotides ABN99360 - ABN99428 encode the
CC human secreted proteins (SECP) of the invention

XX
SQ Sequence 1959 BP; 346 A; 687 C; 605 G; 321 T; 0 U; 0 Other;

Query Match 98.0%; Score 1913.8; DB 6; Length 1959;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1915; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Qy          36 GGCCGGCTGGGCGTGCGCTCGCTCCCCGAAGCCGGGGCTGGGCCGGAGCCGGGCGAGGGC 95
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db           1 GGCCGGCTGGGCGTGCGCTCGCTCCCCGAAGCCGGGGCTGGGCCGGAGCCGGGCGAGGGC 60

Qy          96 TGGGAGCTGGGCCCGGTCCGGGGACAGCGGGCGAGGGGCAGCTGCCGGAGCCGGGCAGCCC 155
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          61 TGGGAGCTGGGCCCGGTCCGGGGACAGCGGGCGAGGGGCAGCTGCCGGAGCCGGGCAGCCC 120

Qy         156 AGGCCGCTCAGGGCAGGGGACAGCTGGCGCCGGTTCTGCGGTCTCCGGGGCCCAGATGTGG 215
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         121 AGGCCGCTCAGGGCAGGGGACAGCTGGCGCCGGTTCTGCGGTCTCCGGGGCCCAGATGTGG 180

Qy         216 AGGCGGCGGCGCCCCCGGCCCGAGAGCGCACGATGGGGGCCCCGCTCGCCGTAGCGCTGGG 275
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         181 AGGCGGCGGCGCCCCCGGCCCGAGAGCGCACGATGGGGGCCCCGCTCGCCGTAGCGCTGGG 240

Qy         276 GCGCCCTCCACTACCTGGCACTTTTCCTGCAACTCGGCGGCGCCACGCGGCCCGCCGGCC 335
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         241 GCGCCCTCCACTACCTGGCACTTTTCCTGCAACTCGGCGGCGCCACGCGGCCCGCCGGCC 300

Qy         336 ACGCGCCCTGGGACAACCACGTCTCCGGCCACGCCCTGTTCACAGAGACACCCCATGACA 395
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         301 ACGCGCCCTGGGACAACCACGTCTCCGGCCACGCCCTGTTCACAGAGACACCCCATGACA 360

Qy         396 TGACAGCACGGACGGGCGAGGACGTGGAGATGGCCTGCTCCTTCCGCGGCAGCGGCTCCC 455
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         361 TGACAGCACGGACGGGCGAGGACGTGGAGATGGCCTGCTCCTTCCGCGGCAGCGGCTCCC 420

Qy         456 CCTCCTACTCGCTGGAGATCCAGTGGTGGTATGTACGGAGCCACCGGGACTGGACCGACA 515
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         421 CCTCCTACTCGCTGGAGATCCAGTGGTGGTATGTACGGAGCCACCGGGACTGGACCGACA 480

Qy         516 AGCAGGCGTGGGCCTCGAACCAGCTAAAAGCATCTCAGCAGGAAGACGCAGGGAAGGAGG 575
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         481 AGCAGGCGTGGGCCTCGAACCAGCTAAAAGCATCTCAGCAGGAAGACGCAGGGAAGGAGG 540

Qy         576 CAACCAAAATAAGTGTGGTCAAGGTGGTGGGCAGCAACATCTCCCACAAGCTGCGCCTGT 635
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         541 CAACCAAAATAAGTGTGGTCAAGGTGGTGGGCAGCAACATCTCCCACAAGCTGCGCCTGT 600

Qy         636 CCCGGGTGAAGCCCACGGACGAAGGCACCTACGAGTGCCGCGTCATCGACTTCAGCGACG 695
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         601 CCCGGGTGAAGCCCACGGACGAAGGCACCTACGAGTGCCGCGTCATCGACTTCAGCGACG 660

Qy         696 GCAAGGCCCGGCACCACAAGGTCAAGGCCTACCTGCGGGTGCAGCCAGGGGAGAACTCCG 755
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         661 GCAAGGCCCGGCACCACAAGGTCAAGGCCTACCTGCGGGTGCAGCCAGGGGAGAACTCCG 720

Qy         756 TCCTGCATCTGCCCGAAGCCCCTCCCGCCGCGCCCGCCCCGCCGCCCCCCAAGCCAGGCA 815
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         721 TCCTGCATCTGCCCGAAGCCCCTCCCGCCGCGCCCGCCCCGCCGCCCCCCAAGCCAGGCA 780

Qy         816 AGGAGCTGAGGAAGCGCTCGGTGGACCAGGAGGCCTGCAGCCTCTAGACTGATGCCCCTG 875
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         781 AGGAGCTGAGGAAGCGCTCGGTGGACCAGGAGGCCTGCAGCCTCTAGACTGATGCCCCTG 840
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Qy        1836 ACAGCTCAGTGATGACGTGGGGGAGGTGGGAGAGGCCGAGGGCTTTGCCTAGGGGTGGGT 1895
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        1801 ACAGCTCAGTGATGACGTGGGGGAGGTGGGAGAGGCCGAGGGCTTTGCCTAGGGGTGGGT 1860

Qy        1896 TGCCCTGTATACATGATCCAGTCTGTGACTACCAGCCAACCTGAATAAAGCGGTTTT 1952
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        1861 TGCCCTGTATACATGATCCAGTCTGTGACTACCAGCCAACCTGAATAAAGCGGTTTT 1917
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ALIGNMENT WITH SEQ ID NO: 66

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ABP43479
ID   ABP43479 standard; protein; 204 AA.
XX
AC   ABP43479;
XX
DT   15-JUN-2007  (revised)
DT   08-AUG-2002  (first entry)
XX
DE   Human secreted protein (SCEP) 3.
XX
KW   Human; secreted protein; SECP; SECP expression; gene therapy;
KW   protein therapy: immune system disorders; AIDS; thymic hypoplasia;
KW   anaemia; asthma; Crohn's disease; neurological disorder; epilepsy;
KW   Huntington's disease; dementia; Parkinson's disease; Down's syndrome;
KW   developmental disorder; cell proliferative disorder; cancer; BOND_PC;
KW   chromosome 20 open reading frame 102;
KW   chromosome 20 open reading frame 102 [Homo sapiens]; C20orf102;
KW   dJ1118M15.2; hypothetical protein LOC128434;
KW   hypothetical protein LOC128434 [Homo sapiens];
KW   chromosome 20 open reading frame 102, isoform CRA_a;
KW   chromosome 20 open reading frame 102, isoform CRA_a [Homo sapiens];
KW   hypothetical protein; hypothetical protein [Homo sapiens];
KW   unnamed protein product; unnamed protein product [Homo sapiens]; GO4872;
KW   GO7166.
XX
OS   Homo sapiens.
XX
PN   WO200226982-A2.
XX
PD   04-APR-2002.
XX
PF   25-SEP-2001; 2001WO-US030042.
XX
PR   29-SEP-2000; 2000US-0236869P.
PR   11-OCT-2000; 2000US-0239812P.
PR   12-OCT-2000; 2000US-0240108P.
PR   17-OCT-2000; 2000US-0241282P.
PR   20-OCT-2000; 2000US-0242218P.
XX
PA   (INCY-) INCYTE GENOMICS INC.
XX
PI   Yue H, Tang YT, Nguyen DB, Yao MG, Xu Y, Tribouley CM;
PI   Sanjanwala MS, Walia NK, Baughn MR, Sapperstein SK, Lal P;
PI   Thornton M, Gandhi AR, Ramkumar J, Elliott VS, Arvizu C;
PI   Thangavelu K, Gietzen KJ, Ding L, Au-Young J, Tran B, Policky JL;
PI   Lee S, Lu DAM, Burford N, Warren BA, Gururajan R, Duggan BM;
PI   Honchell CD, Hafalia AJA;
XX
DR   WPI; 2002-394239/42.
DR   N-PSDB; ABN99362.
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DR PC:NCBI; gi18079321.
DR PC:SWISSPROT; Q96N03.
XX
PT New human secreted proteins, useful for diagnosing, treating or
PT preventing immune system disorders (e.g. Crohn's disease), neurological
PT disorders (e.g. Parkinson's disease), or cell proliferative disorders
PT (e.g. cancers).
XX
PS Claim 1; Page 151-152; 238pp; English.
XX
CC The invention comprises the amino acid and coding sequences of human
CC secreted proteins (SECP). The SECP DNA and amino acid sequences of the
CC invention are useful for treating/preventing disorders associated with
CC decreased or elevated expression of SECP. The SECP DNA and protein
CC sequences are specifically useful for treating/preventing (i.e. gene
CC therapy and protein therapy): immune system disorders (e.g. AIDS, thymic
CC hypoplasia, anaemia, asthma or Crohn's disease); neurological disorders
CC (e.g. epilepsy, Huntington's disease, dementia or Parkinson's disease);
CC developmental disorders (e.g. Down's syndrome); and cell proliferative
CC disorders (e.g. cancer). The proteins ABP43477 - ABP43543 represent the
CC human secreted proteins (SECP) of the invention
CC
CC Revised record issued on 15-JUN-2007 : Enhanced with precomputed
CC information from BOND.
XX
SQ Sequence 204 AA;

Query Match 100.0%; Score 1092; DB 5; Length 204;
Best Local Similarity 100.0%; Pred. No. 1.7e-92;
Matches 204; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 MGAPLAVALGALHYLALFLQLGGATRPAGHAPWDNHVSGHALFTETPHDMTARTGEDVEM 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MGAPLAVALGALHYLALFLQLGGATRPAGHAPWDNHVSGHALFTETPHDMTARTGEDVEM 60

Qy         61 ACSFRGSGSPSYSLEIQWWYVRSHRDWTDKQAWASNQLKASQQEDAGKEATKISVVKVVG 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 ACSFRGSGSPSYSLEIQWWYVRSHRDWTDKQAWASNQLKASQQEDAGKEATKISVVKVVG 120

Qy        121 SNISHKLRLSRVKPTDEGTYECRVIDFSDGKARHHKVKAYLRVQPGENSVLHLPEAPPAA 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 SNISHKLRLSRVKPTDEGTYECRVIDFSDGKARHHKVKAYLRVQPGENSVLHLPEAPPAA 180

Qy        181 PAPPPPKPGKELRKRSVDQEACSL 204
              ||||||||||||||||||||||||
Db        181 PAPPPPKPGKELRKRSVDQEACSL 204
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